

## SEQUENCE LISTING

<110> NG, LEONG

<120> BODILY FLUID MARKERS OF TISSUE HYPOXIA

<130> ISA-012.01

<140> 10/719,695

<141> 2003-11-21

<150> GB 0322390.6

<151> 2003-09-24

<150> GB 0227179.9

<151> 2002-11-21

<160> 5

<170> PatentIn Ver. 3.3

<210> 1

<211> 999

<212> PRT

<213> Homo sapiens

<400> 1

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Ala	Leu	Val	Ala	Val	Leu	Leu	Ala	Asp	Leu	Leu	Ala	Leu	Ser	Asp	Thr	
			20					25					30			
Leu	Ala	Val	Met	Ser	Val	Asp	Leu	Gly	Ser	Glu	Ser	Met	Lys	Val	Ala	
			35				40					45				
Ile	Val	Lys	Pro	Gly	Val	Pro	Met	Glu	Ile	Val	Leu	Asn	Lys	Glu	Ser	
			50			55					60					
Arg	Arg	Lys	Thr	Pro	Val	Ile	Val	Thr	Leu	Lys	Glu	Asn	Glu	Arg	Phe	
			65			70				75					80	
Phe	Gly	Asp	Ser	Ala	Ala	Ser	Met	Ala	Ile	Lys	Asn	Pro	Lys	Ala	Thr	
				85					90					95		
Leu	Arg	Tyr	Phe	Gln	His	Leu	Leu	Gly	Lys	Gln	Ala	Asp	Asn	Pro	His	
			100					105					110			
Val	Ala	Leu	Tyr	Gln	Ala	Arg	Phe	Pro	Glu	His	Glu	Leu	Thr	Phe	Asp	
			115				120					125				
Pro	Gln	Arg	Gln	Thr	Val	His	Phe	Gln	Ile	Ser	Ser	Gln	Leu	Gln	Phe	
			130			135					140					
Ser	Pro	Glu	Glu	Val	Leu	Gly	Met	Val	Leu	Asn	Tyr	Ser	Arg	Ser	Leu	
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Ala	Glu	Asp	Phe	Ala	Glu	Gln	Pro	Ile	Lys	Asp	Ala	Val	Ile	Thr	Val		
				165					170					175			
Pro	Val	Phe	Phe	Asn	Gln	Ala	Glu	Arg	Arg	Ala	Val	Leu	Gln	Ala	Ala		
			180					185					190				
Arg	Met	Ala	Gly	Leu	Lys	Val	Leu	Gln	Leu	Ile	Asn	Asp	Asn	Thr	Ala		
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Thr	Ala	Leu	Ser	Tyr	Gly	Val	Phe	Arg	Arg	Lys	Asp	Ile	Asn	Thr	Thr		
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Ala	Gln	Asn	Ile	Met	Phe	Tyr	Asp	Met	Gly	Ser	Gly	Ser	Thr	Val	Cys		
225					230					235					240		
Thr	Ile	Val	Thr	Tyr	Gln	Met	Val	Lys	Thr	Lys	Glu	Ala	Gly	Met	Gln		
				245					250					255			
Pro	Gln	Leu	Gln	Ile	Arg	Gly	Val	Gly	Phe	Asp	Arg	Thr	Leu	Gly	Gly		
			260					265					270				
Leu	Glu	Met	Glu	Leu	Arg	Leu	Arg	Glu	Arg	Leu	Ala	Gly	Leu	Phe	Asn		
		275					280					285					
Glu	Gln	Arg	Lys	Gly	Gln	Arg	Ala	Lys	Asp	Val	Arg	Glu	Asn	Pro	Arg		
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Ala	Met	Ala	Lys	Leu	Leu	Arg	Glu	Ala	Asn	Arg	Leu	Lys	Thr	Val	Leu		
305					310					315					320		
Ser	Ala	Asn	Ala	Asp	His	Met	Ala	Gln	Ile	Glu	Gly	Leu	Met	Asp	Asp		
				325					330					335			
Val	Asp	Phe	Lys	Ala	Lys	Val	Thr	Arg	Val	Glu	Phe	Glu	Glu	Leu	Cys		
			340					345					350				
Ala	Asp	Leu	Phe	Glu	Arg	Val	Pro	Gly	Pro	Val	Gln	Gln	Ala	Leu	Gln		
		355					360					365					
Ser	Ala	Glu	Met	Ser	Leu	Asp	Glu	Ile	Glu	Gln	Val	Ile	Leu	Val	Gly		
		370				375					380						
Gly	Ala	Thr	Arg	Val	Pro	Arg	Val	Gln	Glu	Val	Leu	Leu	Lys	Ala	Val		
385					390					395					400		
Gly	Lys	Glu	Glu	Leu	Gly	Lys	Asn	Ile	Asn	Ala	Asp	Glu	Ala	Ala	Ala		
				405					410					415			
Met	Gly	Ala	Val	Tyr	Gln	Ala	Ala	Ala	Leu	Ser	Lys	Ala	Phe	Lys	Val		
			420					425					430				
Lys	Pro	Phe	Val	Val	Arg	Asp	Ala	Val	Val	Tyr	Pro	Ile	Leu	Val	Glu		
		435					440					445					
Phe	Thr	Arg	Glu	Val	Glu	Glu	Glu	Pro	Gly	Ile	His	Ser	Leu	Lys	His		
	450					455					460						

Asn	Lys	Arg	Val	Leu	Phe	Ser	Arg	Met	Gly	Pro	Tyr	Pro	Gln	Arg	Lys	465	470	475	480
Val	Ile	Thr	Phe	Asn	Arg	Tyr	Ser	His	Asp	Phe	Asn	Phe	His	Ile	Asn	485	490		495
Tyr	Gly	Asp	Leu	Gly	Phe	Leu	Gly	Pro	Glu	Asp	Leu	Arg	Val	Phe	Gly	500	505		510
Ser	Gln	Asn	Leu	Thr	Thr	Val	Lys	Leu	Lys	Gly	Val	Gly	Asp	Ser	Phe	515	520		525
Lys	Lys	Tyr	Pro	Asp	Tyr	Glu	Ser	Lys	Gly	Ile	Lys	Ala	His	Phe	Asn	530	535		540
Leu	Asp	Glu	Ser	Gly	Val	Leu	Ser	Leu	Asp	Arg	Val	Glu	Ser	Val	Phe	545	550		555
Glu	Thr	Leu	Val	Glu	Asp	Ser	Ala	Glu	Glu	Glu	Ser	Thr	Leu	Thr	Lys	565	570		575
Leu	Gly	Asn	Thr	Ile	Ser	Ser	Leu	Phe	Gly	Gly	Gly	Thr	Thr	Pro	Asp	580	585		590
Ala	Lys	Glu	Asn	Gly	Thr	Asp	Thr	Val	Gln	Glu	Glu	Glu	Glu	Ser	Pro	595	600		605
Ala	Glu	Gly	Ser	Lys	Asp	Glu	Pro	Gly	Glu	Gln	Val	Glu	Leu	Lys	Glu	610	615		620
Glu	Ala	Glu	Ala	Pro	Val	Glu	Asp	Gly	Ser	Gln	Pro	Pro	Pro	Pro	Glu	625	630		635
Pro	Lys	Gly	Asp	Ala	Thr	Pro	Glu	Gly	Glu	Lys	Ala	Thr	Glu	Lys	Glu	645	650		655
Asn	Gly	Asp	Lys	Ser	Glu	Ala	Gln	Lys	Pro	Ser	Glu	Lys	Ala	Glu	Ala	660	665		670
Gly	Pro	Glu	Gly	Val	Ala	Pro	Ala	Pro	Glu	Gly	Glu	Lys	Lys	Gln	Lys	675	680		685
Pro	Ala	Arg	Lys	Arg	Arg	Met	Val	Glu	Glu	Ile	Gly	Val	Glu	Leu	Val	690	695		700
Val	Leu	Asp	Leu	Pro	Asp	Leu	Pro	Glu	Asp	Lys	Leu	Ala	Gln	Ser	Val	705	710		715
Gln	Lys	Leu	Gln	Asp	Leu	Thr	Leu	Arg	Asp	Leu	Glu	Lys	Gln	Glu	Arg	725	730		735
Glu	Lys	Ala	Ala	Asn	Ser	Leu	Glu	Ala	Phe	Ile	Phe	Glu	Thr	Gln	Asp	740	745		750
Lys	Leu	Tyr	Gln	Pro	Glu	Tyr	Gln	Glu	Val	Ser	Thr	Glu	Glu	Gln	Arg	755	760		765

Glu Glu Ile Ser Gly Lys Leu Ser Ala Ala Ser Thr Trp Leu Glu Asp  
 770 775 780  
 Glu Gly Val Gly Ala Thr Thr Val Met Leu Lys Glu Lys Leu Ala Glu  
 785 790 795 800  
 Leu Arg Lys Leu Cys Gln Gly Leu Phe Phe Arg Val Glu Glu Arg Lys  
 805 810 815  
 Lys Trp Pro Glu Arg Leu Ser Ala Leu Asp Asn Leu Leu Asn His Ser  
 820 825 830  
 Ser Met Phe Leu Lys Gly Ala Arg Leu Ile Pro Glu Met Asp Gln Ile  
 835 840 845  
 Phe Thr Glu Val Glu Met Thr Thr Leu Glu Lys Val Ile Asn Glu Thr  
 850 855 860  
 Trp Ala Trp Lys Asn Ala Thr Leu Ala Glu Gln Ala Lys Leu Pro Ala  
 865 870 875 880  
 Thr Glu Lys Pro Val Leu Leu Ser Lys Asp Ile Glu Ala Lys Met Met  
 885 890 895  
 Ala Leu Asp Arg Glu Val Gln Tyr Leu Leu Asn Lys Ala Lys Phe Thr  
 900 905 910  
 Lys Pro Arg Pro Arg Pro Lys Asp Lys Asn Gly Thr Arg Ala Glu Pro  
 915 920 925  
 Pro Leu Asn Ala Ser Ala Ser Asp Gln Gly Glu Lys Val Ile Pro Pro  
 930 935 940  
 Ala Gly Gln Thr Glu Asp Ala Glu Pro Ile Ser Glu Pro Glu Lys Val  
 945 950 955 960  
 Glu Thr Gly Ser Glu Pro Gly Asp Thr Glu Pro Leu Glu Leu Gly Gly  
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 Pro Leu Lys Asn Asp Glu Leu  
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<210> 2

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<212> PRT

<213> Homo sapiens

<400> 2

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<220>  
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                     20                    25                    30  
 Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met  
                     35                    40                    45  
 Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser  
     50                    55                    60  
 Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His  
     65                    70                    75